

specting the fat globules which change into filaments of mucor. The other experiment, which was not carried on to the fructification of the mould, was made with isinglass and the addition of a little vinegar. No animals were formed in it, but in other respects it presented all the appearances of the other case, only that the filaments aggregated into a thick thallus.

PREPARING FOR PUBLICATION.

Dr. Johnston is preparing for the press a second edition of his 'History of British Zoophytes.' It will be published by Mr. Van Voorst in a style to correspond with that spirited publisher's series of 'Histories of British Animals,' and will contain descriptions of all the species discovered since the publication of the first edition, with numerous additional plates.

METEOROLOGICAL OBSERVATIONS FOR JULY 1845.

Chiswick.—July 1. Rain and boisterous, with heavy rain in forenoon: overcast. 2. Overcast: rain. 3. Sultry: thunder and rain: clear at night. 4, 5. Very fine. 6. Sultry, with slight dry haze: lightning at night. 7, 8. Very fine. 9. Cloudy: rain. 10. Rain: overcast. 11. Rain: cloudy: 1 P.M. thunder and excessively heavy rain commenced. 12. Fine. 13. Slight rain: overcast. 14. Very fine: rain. 15. Showery: fine. 16. Very fine: rain. 17. Showery. 18, 19. Very fine. 20. Cloudy: rain. 21. Fine. 22. Very fine: rain. 23. Drizzly. 24. Overcast. 25, 26. Foggy: overcast. 27, 28. Cloudy: rain. 29. Heavy clouds: clear. 30. Densely clouded: rain. 31. Heavy showers.—Mean temperature of the month $1\frac{1}{2}^{\circ}$ below the average.

Boston.—July 1. Cloudy: rain early A.M.: rain A.M. and stormy P.M. 2. Cloudy. 3. Cloudy: rain early A.M.: rain with thunder and lightning A.M. 4. Cloudy: rain, with lightning P.M. 5. Fine. 6. Fine: lightning at night. 7. Fine: 3 o'clock P.M. thermometer 81° . 8. Fine. 9. Fine: rain P.M. 10. Cloudy. 11. Rain. 12, 13. Cloudy. 14. Cloudy: rain early A.M.: rain P.M. 15, 16. Fine. 17. Rain. 18. Fine. 19. Cloudy. 20. Cloudy: rain P.M. 21—27. Cloudy. 28. Fine: rain P.M., with thunder and lightning. 29. Rain: rain early A.M.: rain P.M. 30. Fine: rain P.M. 31. Fine: rain, with thunder and lightning P.M.

Sandwich Manse, Orkney.—July 1. Cloudy: rain. 2. Damp: clear. 3. Clear: drizzle. 4. Clear: showers. 5, 6. Clear. 7. Rain: fog. 8. Clear. 9. Cloudy: showers. 10. Showers: clear: damp. 11. Bright: showers. 12. Showers. 13. Showers: clear. 14, 15. Cloudy: showers. 16. Cloudy. 17. Clear. 18, 19. Bright: hot. 20. Damp: fog. 21. Fog. 22, 23. Cloudy. 24. Cloudy: damp. 25. Cloudy: drops. 26. Drops: cloudy. 27. Clear: showers. 28. Clear: rain: clear. 29. Fine. 30. Cloudy: fine. 31. Bright: drops.

Applegarth Manse, Dumfries-shire.—July 1. Very heavy rain. 2. Very beautiful day. 3. Showers: thunder. 4. Fine. 5. Very fine. 6. Showers: thunder. 7. Showers A.M.: fine P.M. 8, 9. Showers. 10. Fair and fine. 11. Showers. 12. Fair and clear. 13. Wet. 14. Heavy showers. 15. Fair and fine. 16. Heavy showers. 17. Fair and fine. 18, 19. Fair, but cloudy. 20, 21. Fair, but clear. 22, 23. Fair, but cloudy. 24, 25. Fair and fine. 26. Showers. 27. Fair A.M.: showers P.M. 28. Fine: thunder. 29. Showers P.M. 30, 31. Showers.

Mean temperature of the month	56 ^o ·2
Mean temperature of July 1844	56 ·9
Mean temperature of July for twenty-three years .	58 ·1
Rain in July	2 ·18 inches.
Mean rain in July for eighteen years	3 ·91 ,,